



Technical Advisory Committee Meeting #2

March 12, 2014

*Existing Conditions & School Assessment
Review*



Agenda

- I. Introductions
- II. Study Area/Project Objectives



Study Area/School Campuses

CW McGraw Elementary

Sunrise Elementary⁽¹⁾

Fourth Avenue Jr. High⁽²⁾

Alice Byrne Elementary

Woodard Jr. High

James B. Rolle Elementary

Carver Elementary

Mary A. Ontondo Elementary⁽³⁾

O.C. Johnson Elementary

Ron Watson Middle School⁽¹⁾

Roosevelt Elementary⁽²⁾

Gila Vista Jr. High

Palmcroft Elementary

Pecan Grove Elementary

Castle Dome Middle School⁽³⁾

^(1,2,3) Represents schools “share a campus” in that they are adjacent to one another or share a common property line.



Study Purpose

The purpose of the Yuma School District One Multimodal Planning Study is to evaluate 15 school campuses and recommend improvements to:

- *Existing student drop off/pick up areas*
- *Existing bus routes*
- *Existing pedestrian routes and bicycle routes*
- *Enhance the safety and convenience of access for all modes of transportation for each school site*

10 objectives identified to meet these goals



Work Plan Overview

- Task 1: Develop Project Work Plan
- Task 2: Inventory of Existing Conditions
- Task 3: First Phase Stakeholder Involvement
- Task 4: Develop Evaluation Criteria and Plan for Improvements
- Task 5: Prepare Final Draft Report
- Task 6: Second Phase Stakeholder Involvement
- Task 7: Prepare Final Report



Project Schedule

TASKS		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	Project Meeting Coordination										
1	Refine Project Work Plan										
2	Inventory of Current Conditions										
3	First Phase Stakeholder Involvement										
4	Develop Evaluation Criteria & Plan of Improvements										
5	Prepare Final Draft Report										
6	Second Phase Stakeholder Involvement										
7	Prepare Final Report										
Legend		TAC Meeting	Progress Team Meeting	Mode Split Survey	Parent Survey	Working Paper	Final Draft	Final Report			
		Youth Mobility Workshops	District Administration Staff Briefing	District School Board Briefing							



Planning Process and Procedures

Review of Existing Studies/Reports

Field Review/Safety Audit – all schools

Student Mode Split Surveys – every class of every grade at every school

Parent Surveys – over 3,300 returned

Principal Interviews

Law Enforcement Observations

Youth Workshops

Traffic Counts – 26 locations

Crash Data – County/Half Mile Radius/School Months



Working Paper #1 Structure

- A. Introduction
- B. Planning Process & Procedures
- C. Review Existing Plans/Studies
- D. SRTS Programs – *Federal, State, Local*
- E. City/District Demographic & Socioeconomic Profile
- F. Individual School Multimodal Evaluation & Deficiencies Report



Describing the Individual School Assessments

Systematic Review of Each School

- 1 – School Setting and Enrollment Characteristics
- 2 – Neighborhood Character
- 3 – District Identified Need
- 4 – School Official Interview and Observations
- 5 – Mode Split Survey Findings
- 6 – Law Enforcement Observations
- 7 - Roadway Count Findings & Statistics



Describing the Individual School Assessments, Con't

8 – Crash Data

9 – School and Neighborhood Audit Findings

- Traffic Controls, Sidewalks, Bicycle Route and Roadway Conditions
- School Access Points
- Parking
- School Bus Loading Zone
- Family Vehicle Pick Up and Drop off Area



School and Neighborhood Audit: C.W. McGraw Elementary School



District Identified Need:

C.W. McGraw Elementary School

“The proximity to Arizona Ave. and 24th St. has created congestion problems. Traffic on Arizona Ave. gets congested as parents try to turn into the school parking lot during school drop-off and pick-up times. This congestion hinders emergency response vehicles and creates an unsafe area for neighborhood students and parents walking or biking to school.”



Summary of Key Audit Findings:

C.W. McGraw Elementary School

- Convergence of bus, pedestrian and family vehicle activities at the mid block cross walk where space is limited, geometrics are tight.
- Arizona Avenue mid-block crosswalk probably the busiest crosswalk in the District.
- Two special needs buses only. New bus loading zone immediate right on driveway entrance. Safe, convenient access for buses but reduces through lane for family vehicles.
- Many parents like to pick up students in front of cafeteria, not pull forward through the designated pick up area.
- Family vehicle drop off and pick up area has generous stacking depth, but approach driveway lacks depth of storage and causes backups.



Summary of Key Audit Findings:

C.W. McGraw

- This back up extends onto Arizona Avenue, right in and left in turning movements jockey for position at undersized entrance driveway. Backups frequently both direction, particularly for northbound drivers where the effects are felt back to 24th Street.
- Kennedy Loop Access – potential reliever opportunity
- Law Enforcement Observations – vehicular congestion on Arizona and ripple effect to 24th Street has been a source of complaints for years.



Summary of Key Audit Findings:

C.W. McGraw

Mode Split Survey

- 25%-30% of students in all grades walk to school
 - approximately 2/3 to 3/4 of the students taking the family vehicle and/or carpool.
- On average, 1/3 to 1/2 of 5th graders are walking to school
 - and as many as 6% to 15% of students ride their bicycle.



Summary of Key Audit Findings:

C.W. McGraw

- 12, 400 vpd on Arizona Avenue
- 25,500 vpd on 24th Street
- AM and PM 15 minute peaks are 11:45 and 4:30
- Only 2% of vehicles had more than 2 axles
- Arizona Avenue - 1% of vehicles speeding during morning drop off period, 8 % in afternoon pick up period, 22% of all vehicles speeding over 24 hour period
- 24th Street -, 92% of the vehicles exceed 35 mph during the morning drop-off and 79% exceed 35 mph during the afternoon pick-up. 90% of all vehicles speeding over 24 hour period

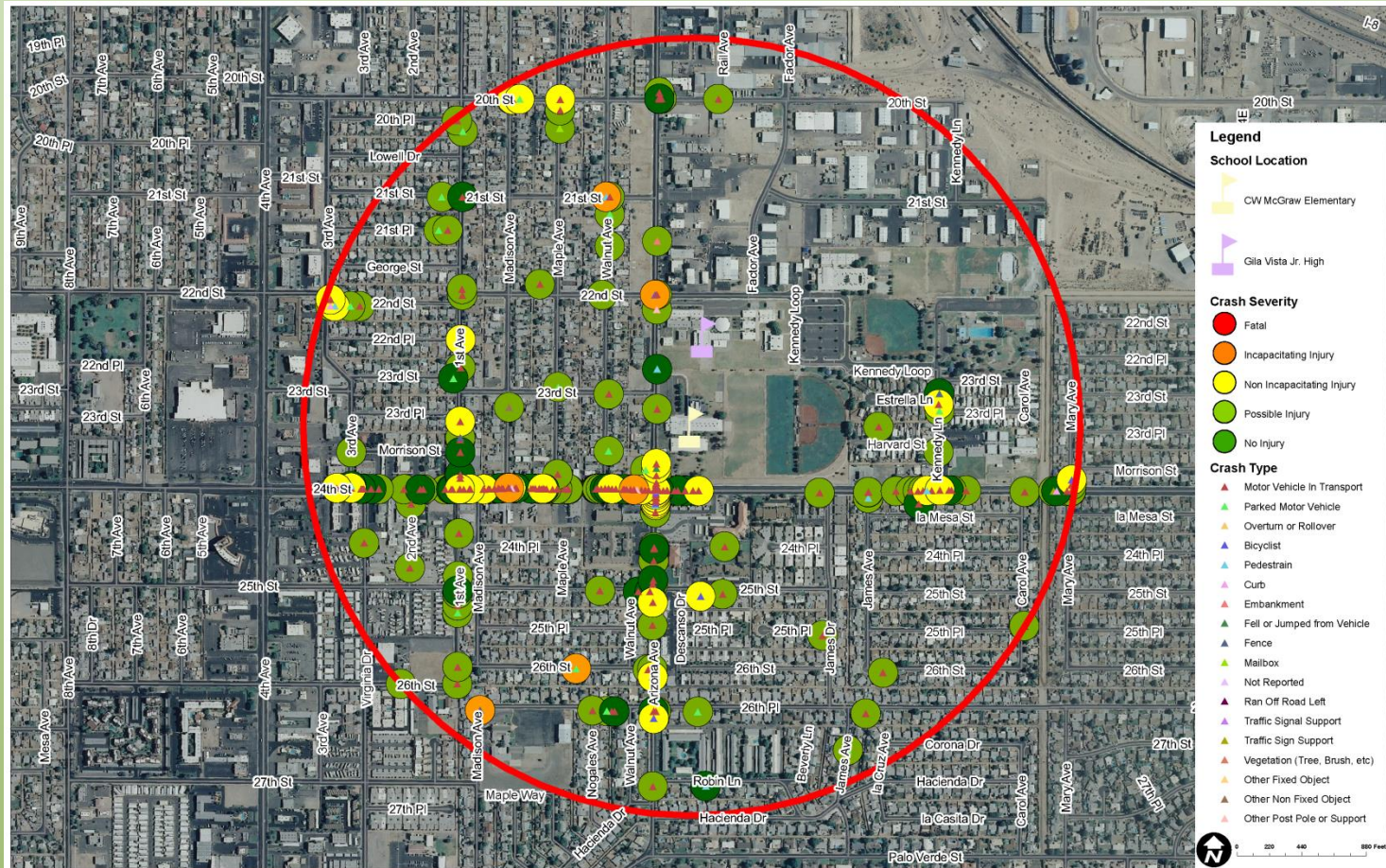


Summary of Key Audit Findings: C.W. McGraw

Injury Type	Number of Crash Incidents
No Injury	228
Possible Injury	55
Non-Incapacitating Injury	50
Incapacitating Injury	7
Fatality	0



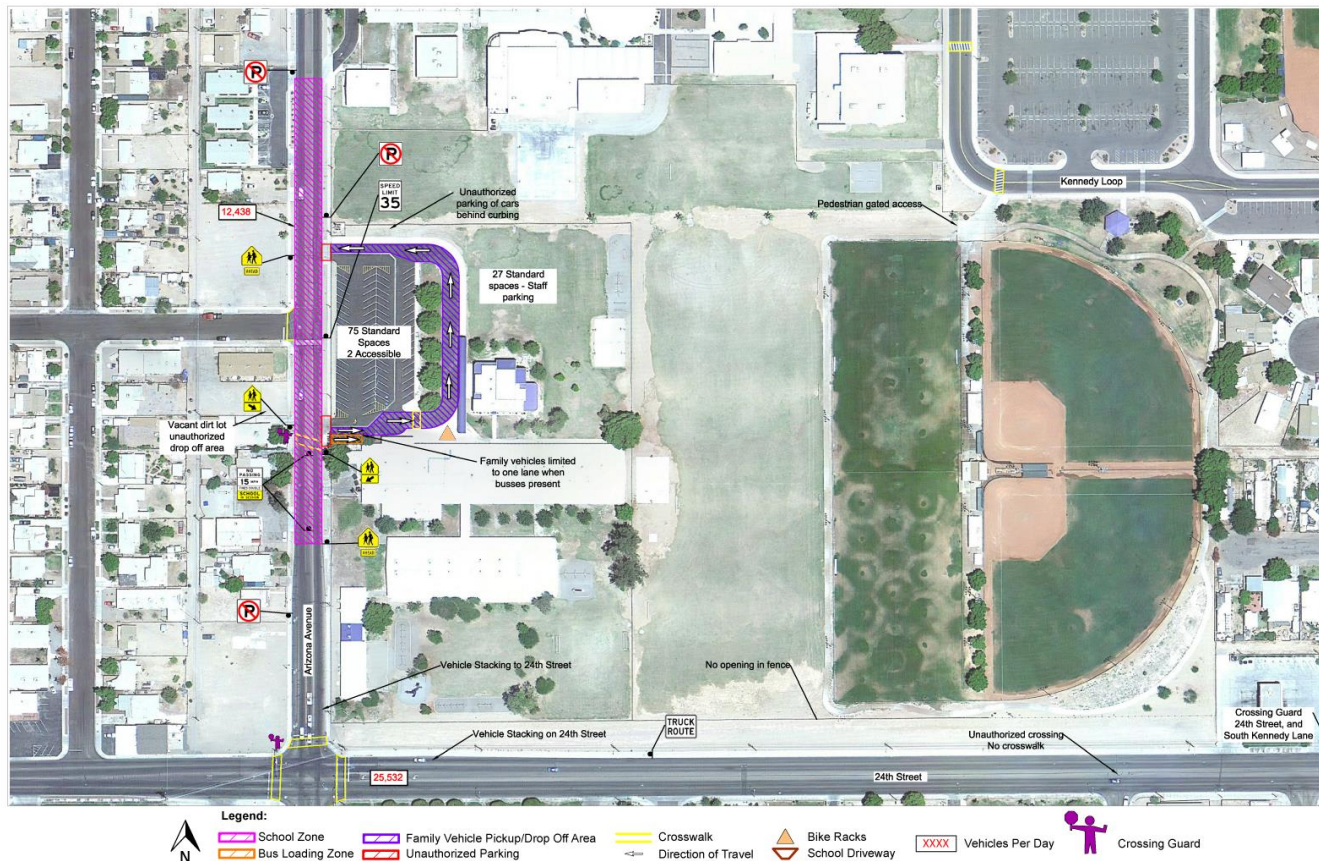
Summary of Key Audit Findings: C.W. McGraw



C.W. McGraw Elementary School - Crash Data Map



Summary of Key Audit Findings: C.W. McGraw



C.W. McGraw Elementary School – School & Neighborhood Audit Findings



School and Neighborhood Audit: O.C. Johnson Elementary School



District Identified Need: O.C. Johnson

“Parents park on both sides of 12th Street and create congestion problems. Parents also park in the residential alleys as they wait for their children at pick-up times. This combination creates an unsafe environment for student walking and biking to school.”



Summary of Key Audit Findings:

O.C. Johnson



Summary of Key Audit Findings:

O.C. Johnson



Summary of Key Audit Findings:

O.C. Johnson

Mode Split Survey

- 1/4 - 1/3 of students in all grades walk to school
 - 2/3 – 3/4 of all students use the family vehicle or carpool
- On average, 2% - 8% of 5th graders ride their bicycles
- 1/3 – 1/2 of all students in fourth and fifth grade are walking to school



Summary of Key Audit Findings:

O.C. Johnson



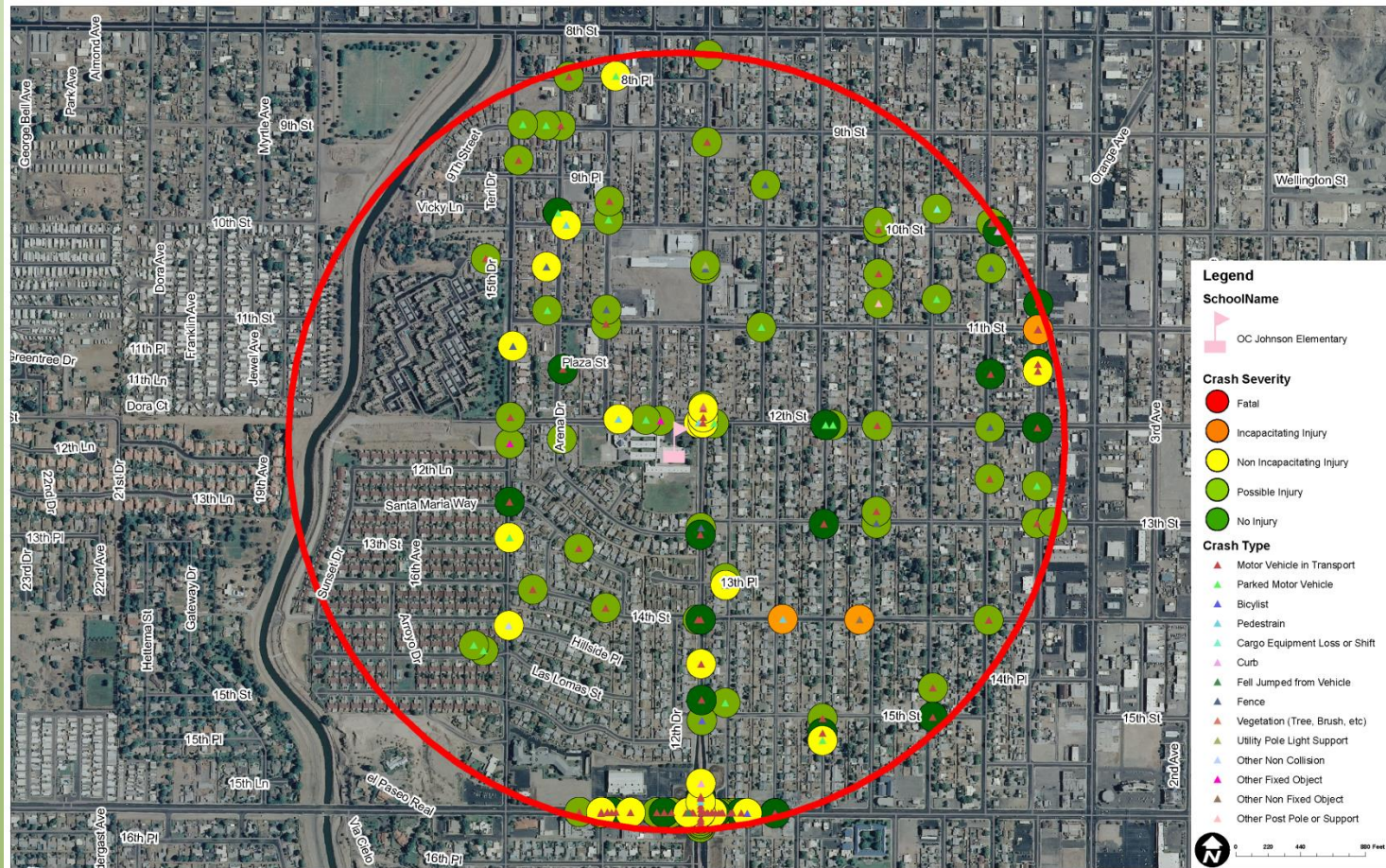
Summary of Key Audit Findings:

O.C. Johnson

Injury Type	Number of Crash Incidents
No Injury	102
Possible Injury	28
Non-Incapacitating Injury	25
Incapacitating Injury	3
Fatality	0



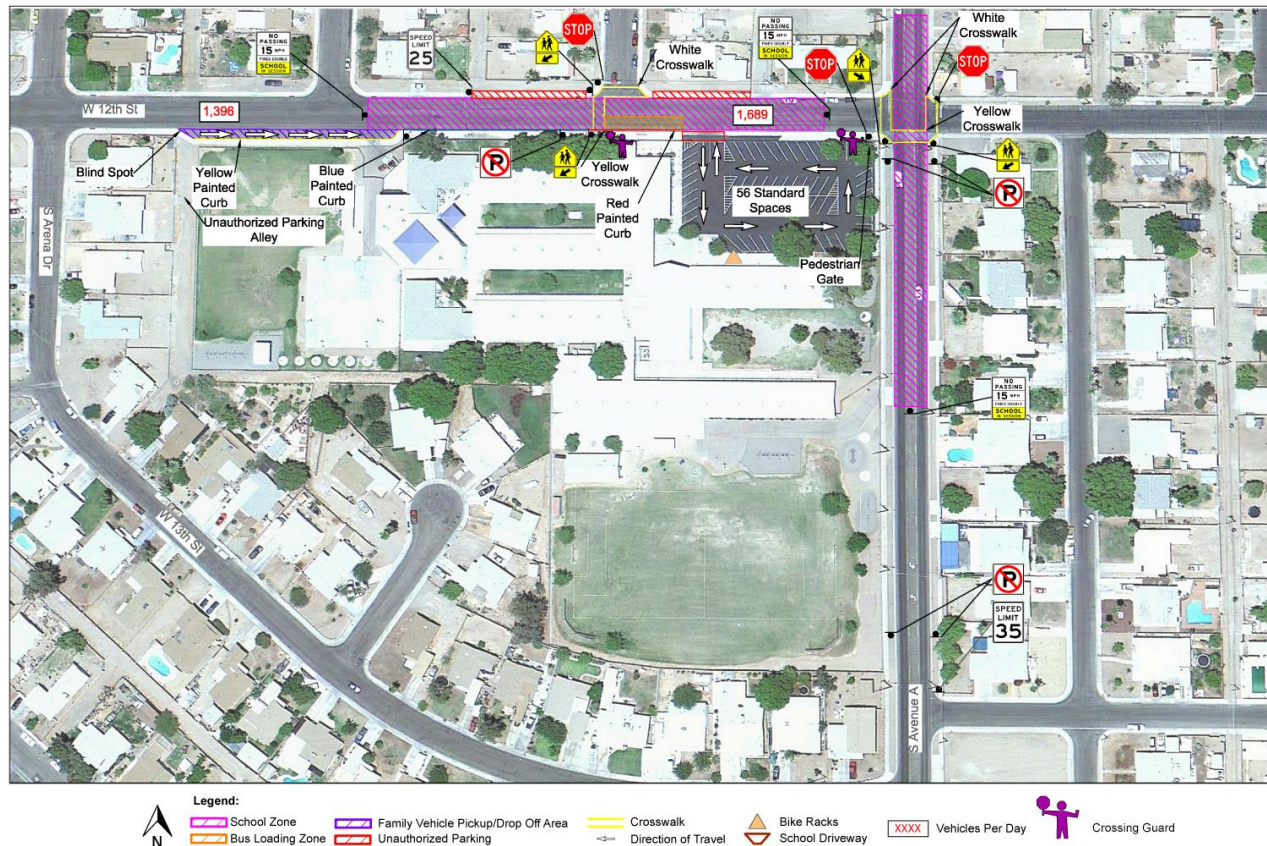
Summary of Key Audit Findings: O.C. Johnson



O.C. Johnson Elementary School - Crash Data Map



Summary of Key Audit Findings: O.C. Johnson



O.C. Johnson Elementary School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Sunrise Elementary School & Ron Watson Middle School



District Identified Need: Sunrise Elementary & Ron Watson Middle School

“There is only one drop-off and pick-up lane that is used by buses and parents for both schools. As a result, parents park across the school on undesignated areas and create congestion and an unsafe environment for children crossing 28th Street to get to their parents vehicles parked along 28th Street. Students and parents do not use the existing crosswalk because of its isolated location.”



Summary of Key Audit Findings: Sunrise Elementary & Ron Watson Middle School



Summary of Key Audit Findings: Sunrise Elementary & Ron Watson Middle School



Summary of Key Audit Findings: Sunrise Elementary & Ron Watson Middle School

Mode Split Survey



Summary of Key Audit Findings: Sunrise Elementary & Ron Watson Middle School



Summary of Key Audit Findings: Sunrise Elementary & Ron Watson Middle School

Injury Type	Number of Crash Incidents
No Injury	4
Possible Injury	1
Non-Incapacitating Injury	0
Incapacitating Injury	0
Fatality	1

Legend

School Location

- Ron Watson
- Sunrise Elementary

Crash Severity

- Fatal
- Incapacitating
- Possible Injury
- No Injury

Crash Type

- Motor Vehicle In Transport
- Jackknife
- Traffic Sign Support

Map Labels:

Streets: Dandridge Way, Robert Way, Melrose Drive, Todd Avenue, Brand Lee Way, Reagan Drive, Saddle Dr, Buckboard St, 63rd St, 28th St, 30th St, 34th St, Avenue 9-12 E, Avenue 9-12 E, North Frontage Road, County 10-12 St, County 10-12 St, Hurricane St, White Ave, Spring Ave, Summer Ave, Autumn St, El Ave, Cyclone Ave, Typhoon Ave, Tempest Ave, Monsoon Ave, Avenue 10-12 E, 28th Pl, 28th Ln, Compadre Pl, 29th St, Avenida Compadres, Pearl Ave, 31st St, 31st Pl, Waco Ave, McCranze Ave.

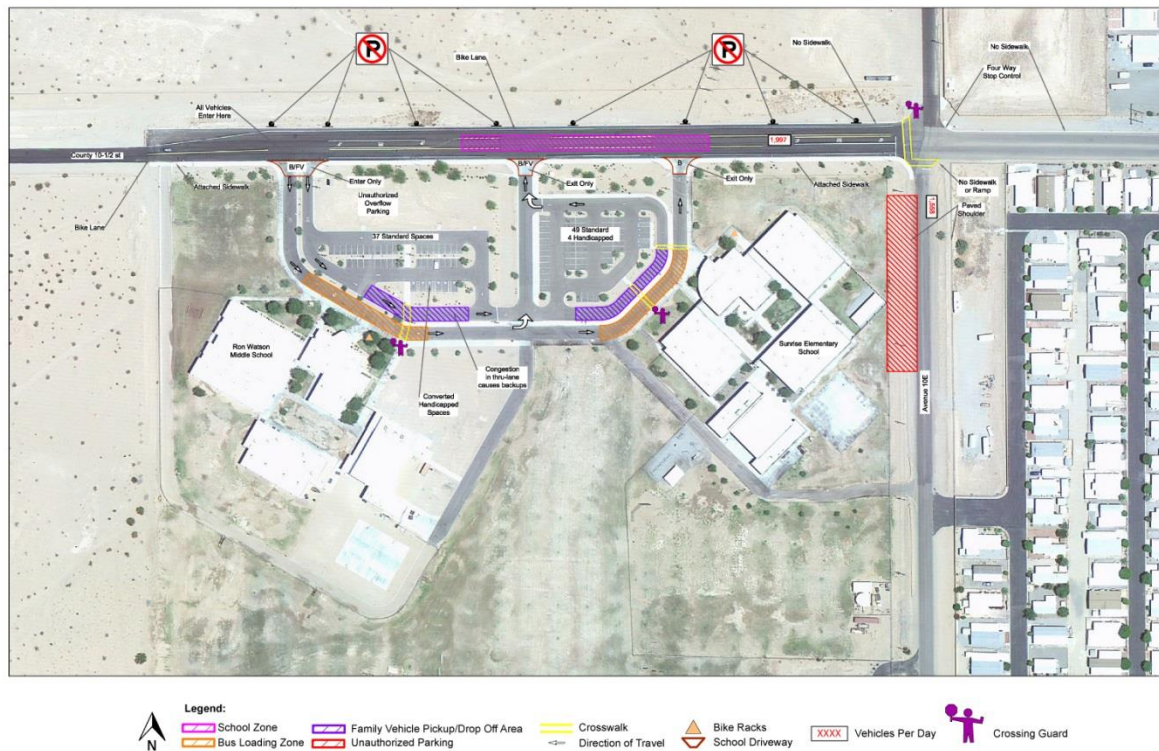
Crash Data:

- One Fatal crash (red circle) located near the intersection of North Frontage Road and County 10-12 St.
- One Incapacitating crash (orange circle) located near the intersection of North Frontage Road and County 10-12 St.
- One Possible Injury crash (green circle) located near the intersection of North Frontage Road and County 10-12 St.
- One No Injury crash (light green circle) located near the intersection of North Frontage Road and County 10-12 St.
- One Motor Vehicle In Transport crash (pink triangle) located near the intersection of North Frontage Road and County 10-12 St.
- One Jackknife crash (yellow triangle) located near the intersection of North Frontage Road and County 10-12 St.
- One Traffic Sign Support crash (yellow triangle) located near the intersection of North Frontage Road and County 10-12 St.

Sunrise Elementary & Ron Watson Middle School - Crash Data Map



Summary of Key Audit Findings: Sunrise Elementary & Ron Watson Middle School



Sunrise Elementary & Ron Watson Middle School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Roosevelt Elementary & Fourth Avenue Middle School



District Identified Need – Roosevelt Elementary & Fourth Avenue Middle School

Roosevelt

“With limited parking, 5th St. gets congested by parents and students during drop-off and pick-up times. Currently students who ride the bus need to cross the street to reach their bus. Inadequate infrastructure such as sidewalks around the school’s vicinity makes it unsafe for children to walk to school or use alternative means of transportation.”

Fourth Avenue

“Students run across the highly trafficked 4th Ave. instead of using the existing underpass. The bus lane becomes unsafe and congested by students who run between the parked buses to reach their parents. Existing chains are in place to protect students crossing the street, but it is inadequate for those trying to reach the sport fields.”



Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School



Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School



Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School

Mode Split Survey



Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School

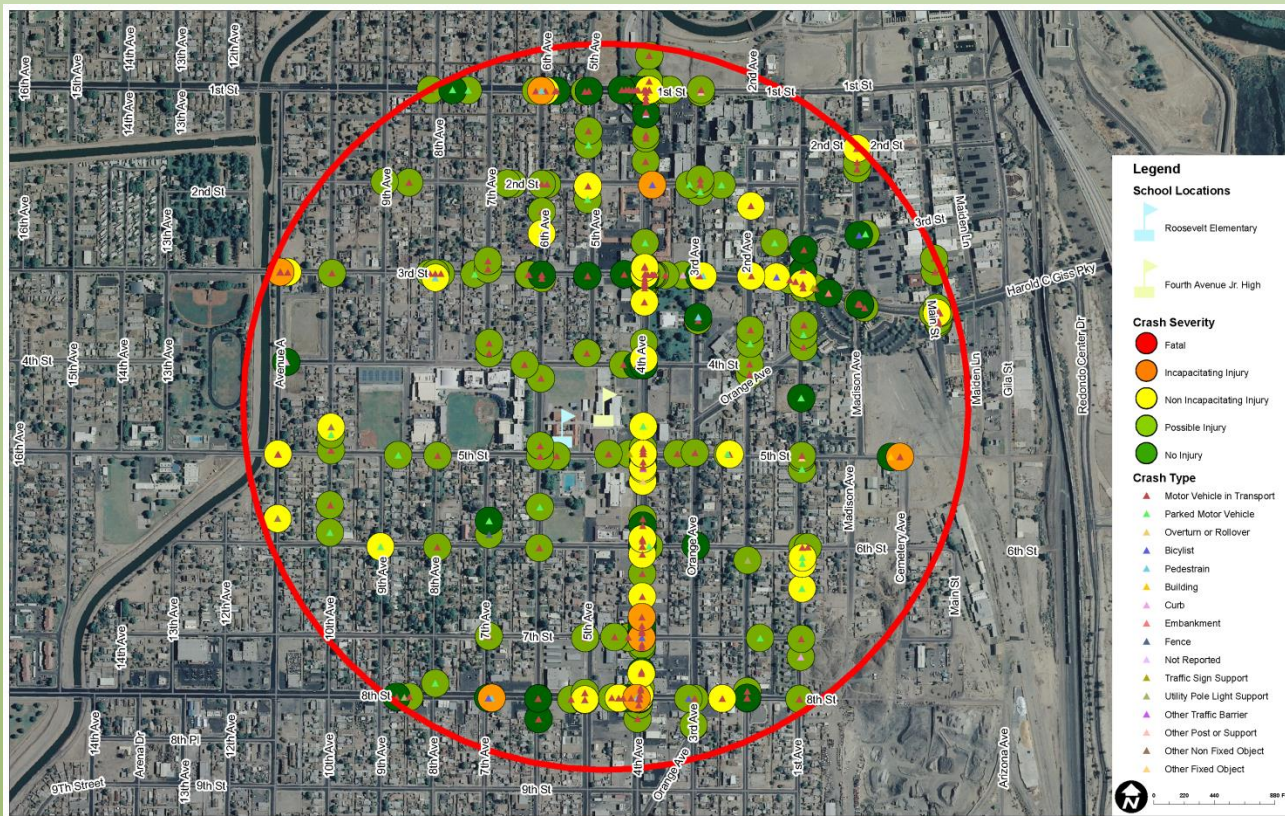


Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School

Injury Type	Number of Crash Incidents
No Injury	274
Possible Injury	68
Non-Incapacitating Injury	50
Incapacitating Injury	9
Fatality	0



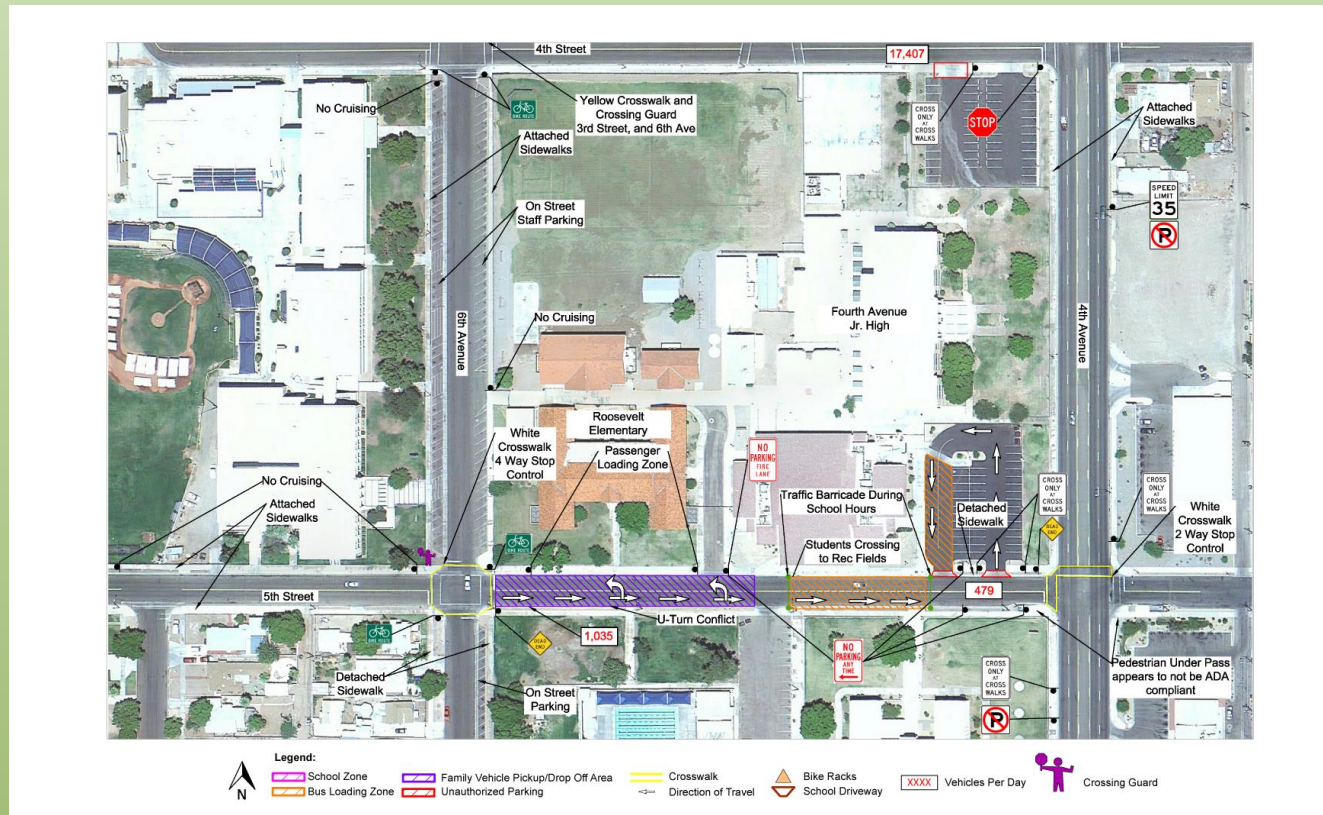
Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School



Roosevelt Elementary & Fourth Avenue Middle School - Crash Data Map



Summary of Key Audit Findings: Roosevelt Elementary & Fourth Avenue Middle School



Roosevelt Elementary & Fourth Avenue Middle School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Alice Byrne Elementary School



District Identified Need:

Alice Byrne Elementary School

“Student safety is jeopardized during parent pick-up as parents overwhelm the school’s front cul-de-sac and parking lot. Lack of speed limit signs along 17th St causes cars to speed through the school area.”



Summary of Key Audit Findings: Alice Byrne Elementary School



Summary of Key Audit Findings: Alice Byrne Elementary School



Summary of Key Audit Findings: Alice Byrne Elementary School

Mode Split Survey



Summary of Key Audit Findings: Alice Byrne Elementary School

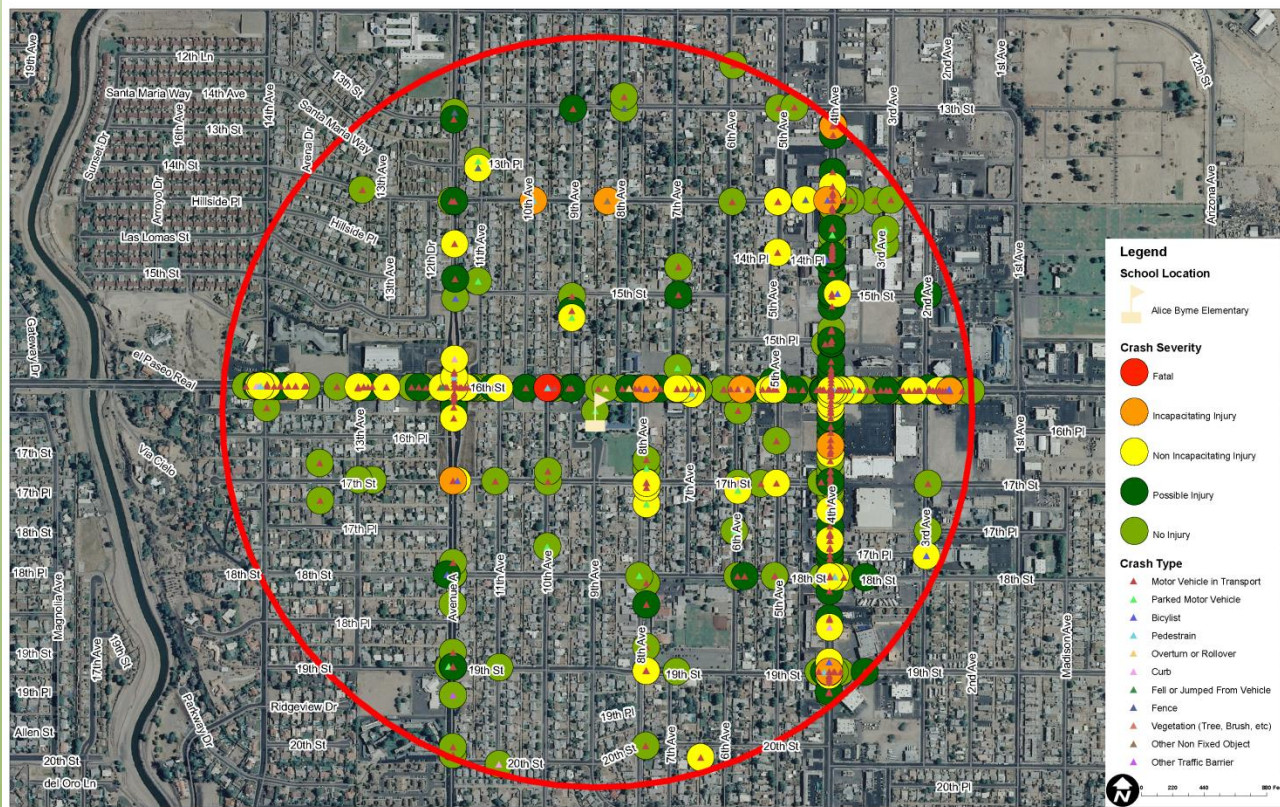


Summary of Key Audit Findings: Alice Byrne Elementary School

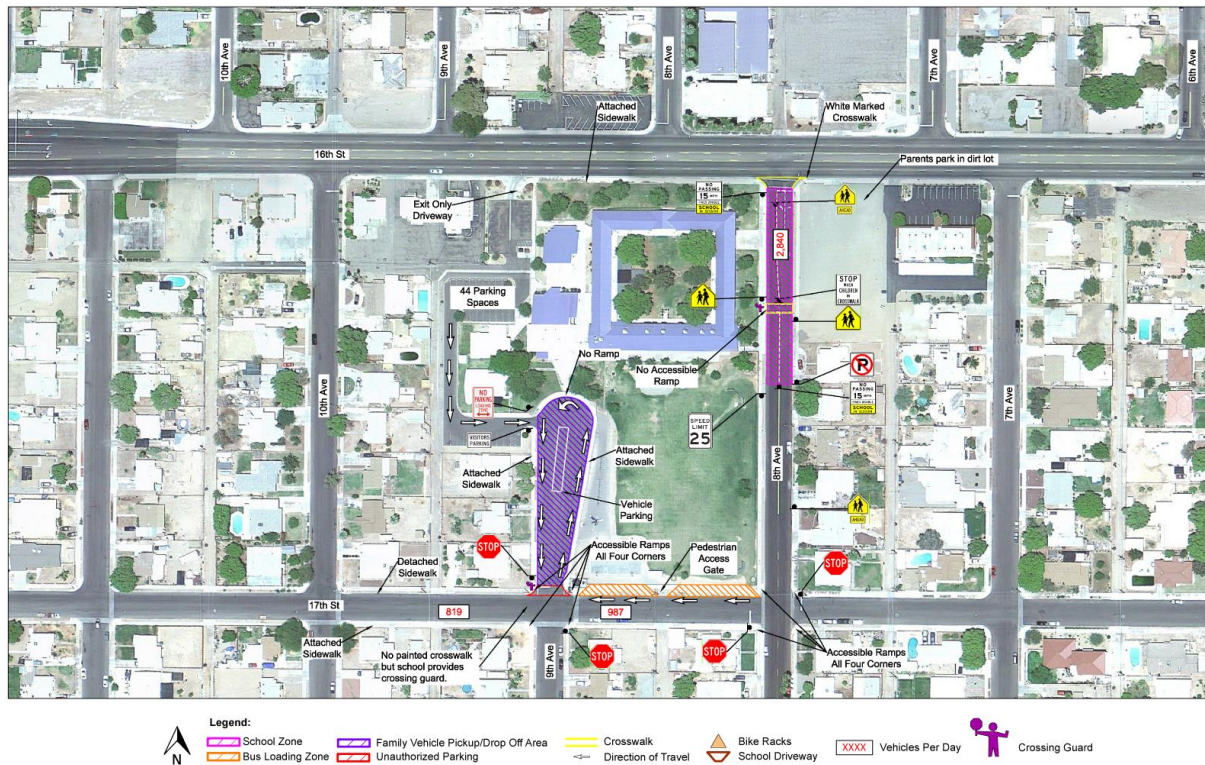
Injury Type	Number of Crash Incidents
No Injury	311
Possible Injury	115
Non-Incapacitating Injury	65
Incapacitating Injury	10
Fatality	1



Summary of Key Audit Findings: Alice Byrne Elementary School



Alice Byrne Elementary School - Crash Data Map



Alice Byrne Elementary School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Gila Vista Junior High School



District Identified Need: Gila Vista Junior High School

“Drop-off and pick-up traffic flows through school’s parking lot, causing vehicles to back up onto 22nd St. The closing of the nearby Gwyneth Ham School has actually increase traffic speed through Kennedy Loop and thus created an unsafe condition for children who cross without a guard.”



Summary of Key Audit Findings: Gila Vista Junior High School



Summary of Key Audit Findings: Gila Vista Junior High School



Summary of Key Audit Findings: Gila Vista Junior High School

Mode Split Survey



Summary of Key Audit Findings: Gila Vista Junior High School

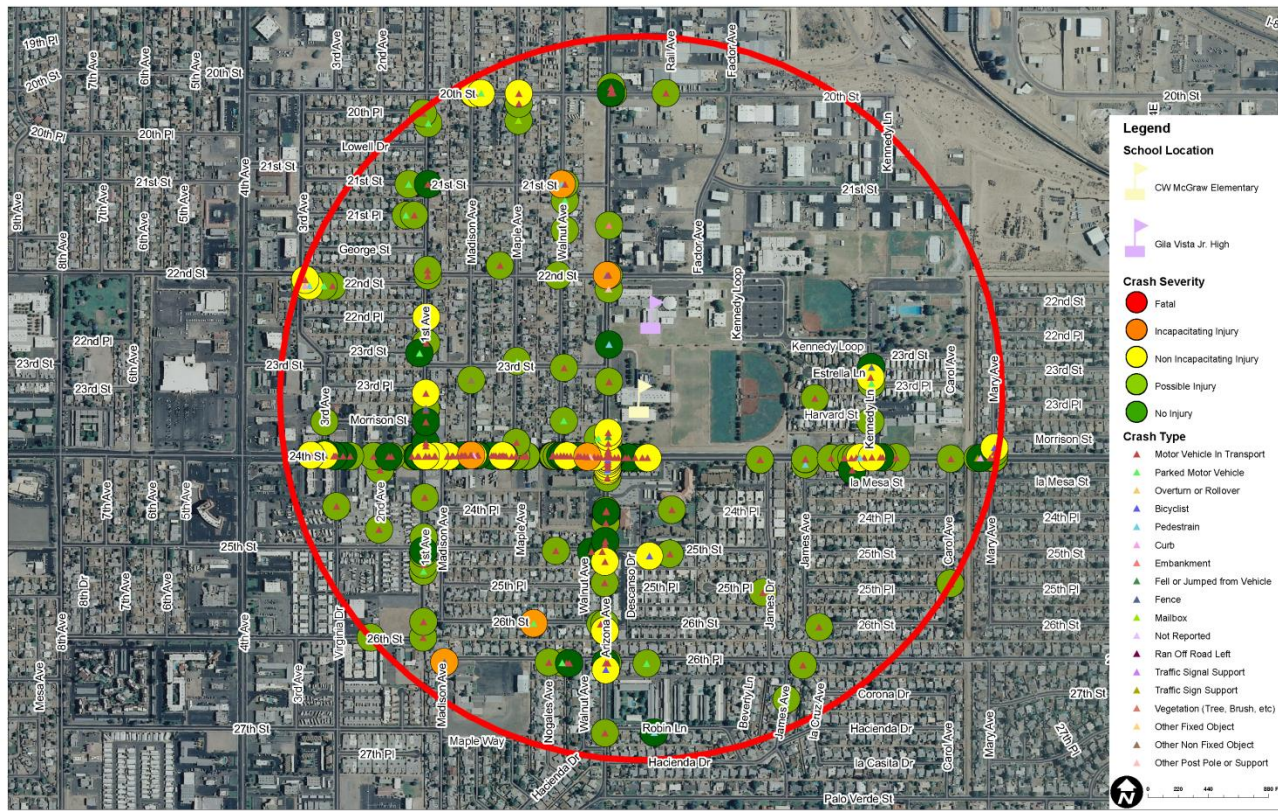


Summary of Key Audit Findings: Gila Vista Junior High School

Injury Type	Number of Crash Incidents
No Injury	228
Possible Injury	55
Non-Incapacitating Injury	50
Incapacitating Injury	7
Fatality	0



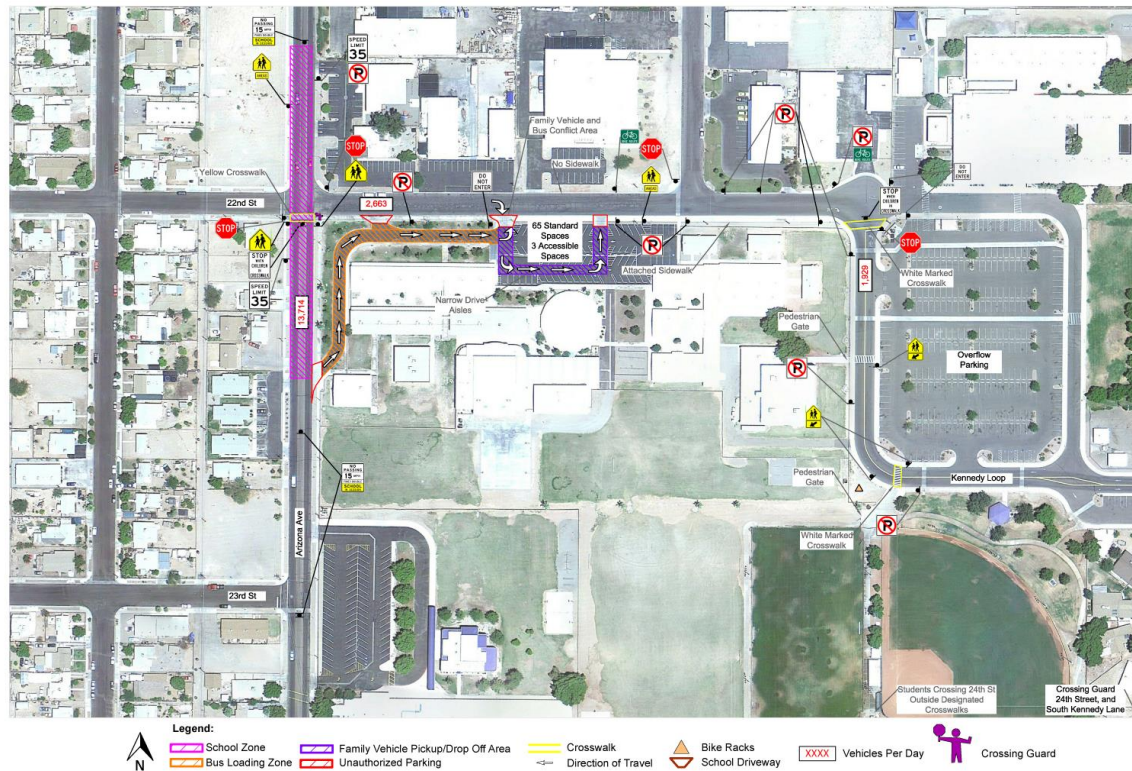
Summary of Key Audit Findings: Gila Vista Junior High School



Gila Vista Junior High School - Crash Data Map



Summary of Key Audit Findings: Gila Vista Junior High School



Gila Vista Junior High School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Woodard Junior High School



District Identified Need: Woodard Junior High School

“Lack of school zone signs in front of school creates a dangerous crossing for students which have resulted in children being hit by cars. Directing students, parents, and buses all in the same parking lot area creates dangers that have caused accidents before.”



Summary of Key Audit Findings: Woodard Junior High School



Summary of Key Audit Findings: Woodard Junior High School



Summary of Key Audit Findings: Woodard Junior High School

Mode Split Survey



Summary of Key Audit Findings: Woodard Junior High School

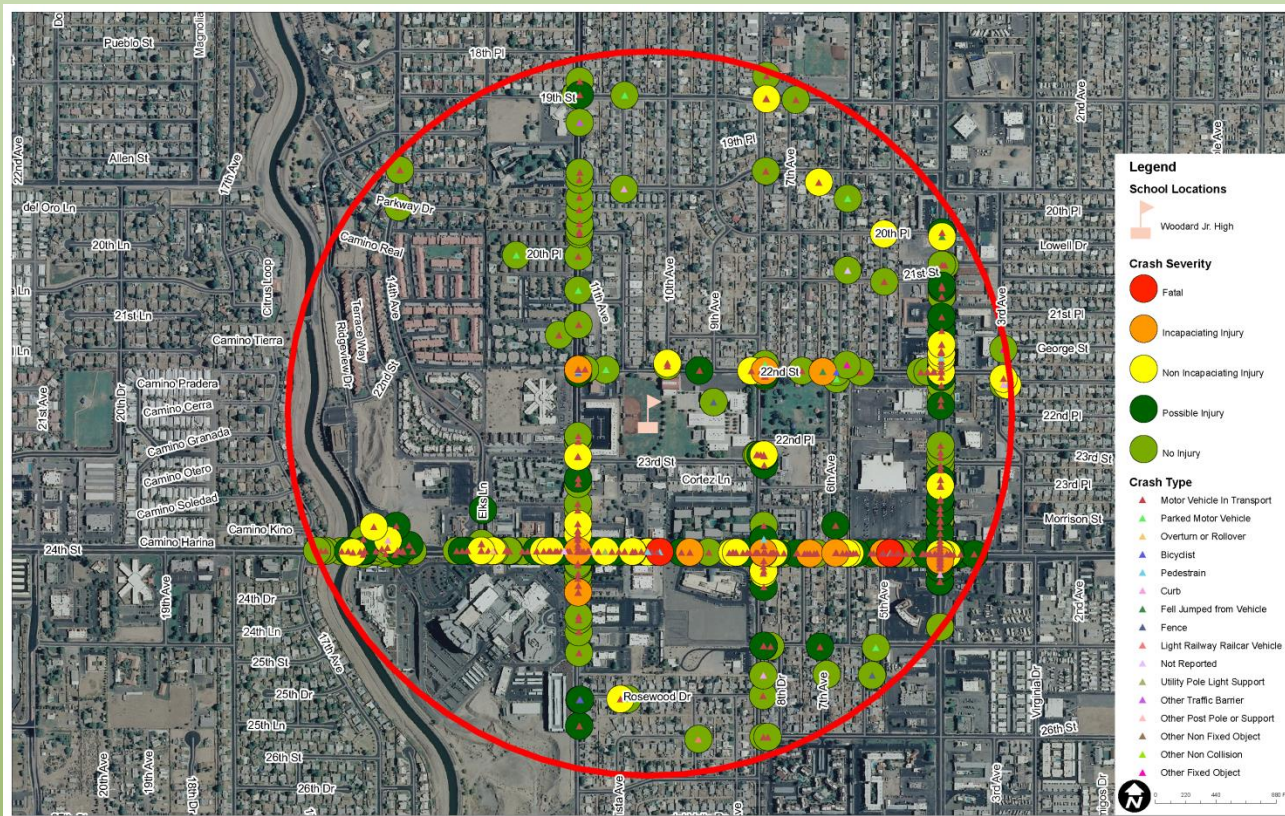


Summary of Key Audit Findings: Woodard Junior High School

Injury Type	Number of Crash Incidents
No Injury	349
Possible Injury	120
Non-Incapacitating Injury	56
Incapacitating Injury	13
Fatality	2



Summary of Key Audit Findings: Woodard Junior High School



Woodard Junior High School - Crash Data Map



School and Neighborhood Audit: Palmcroft Elementary School



District Identified Need: Palmcroft Elementary School

“Dropping-off and picking-up in front of the school has created a dangerous environment for parents and students crossing Palmcroft Ln. Lack of sidewalk on Avenue A between 32nd St and Palmcroft Ln. causes many children to cross the heavily trafficked Avenue A multiple times.”



Summary of Key Audit Findings: Palmcroft Elementary School



Summary of Key Audit Findings: Palmcroft Elementary School



Summary of Key Audit Findings: Palmcroft Elementary School

Mode Split Survey



Summary of Key Audit Findings: Palmcroft Elementary School

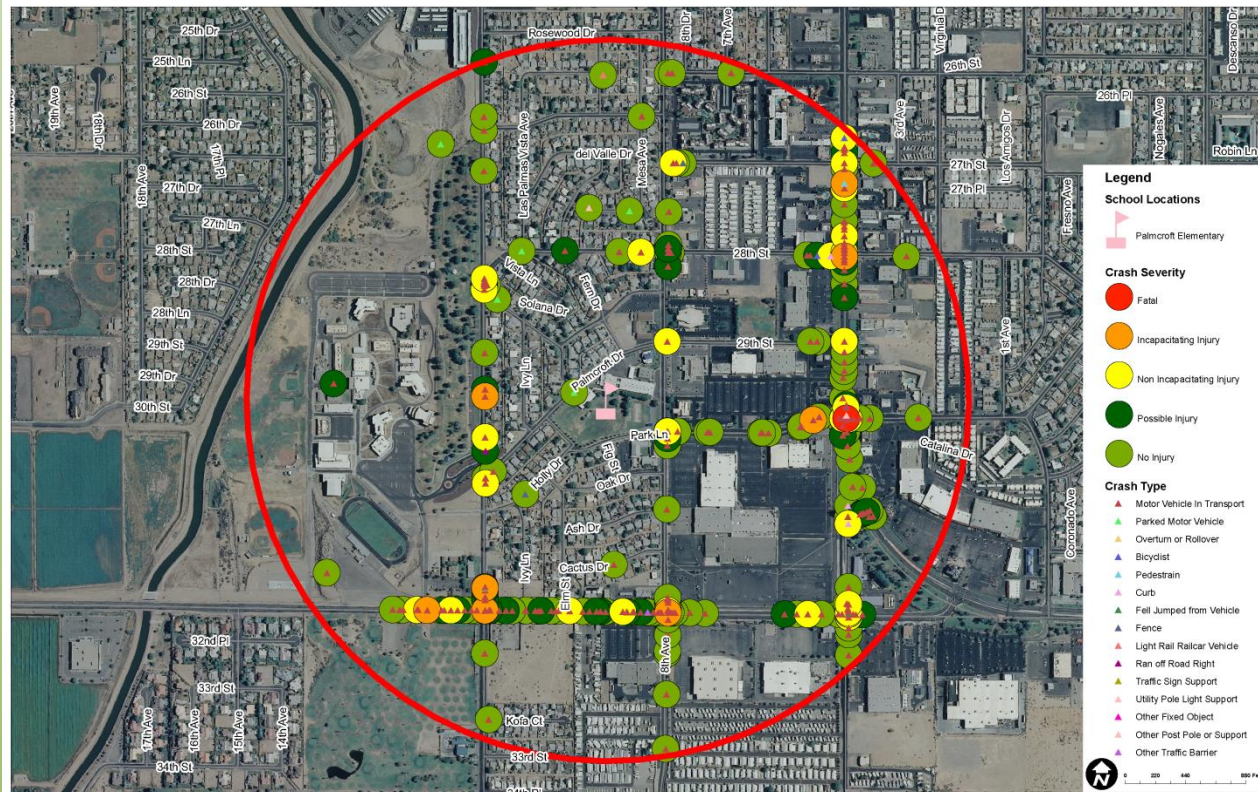


Summary of Key Audit Findings: Palmcroft Elementary School

Injury Type	Number of Crash Incidents
No Injury	216
Possible Injury	52
Non-Incapacitating Injury	37
Incapacitating Injury	9
Fatality	1

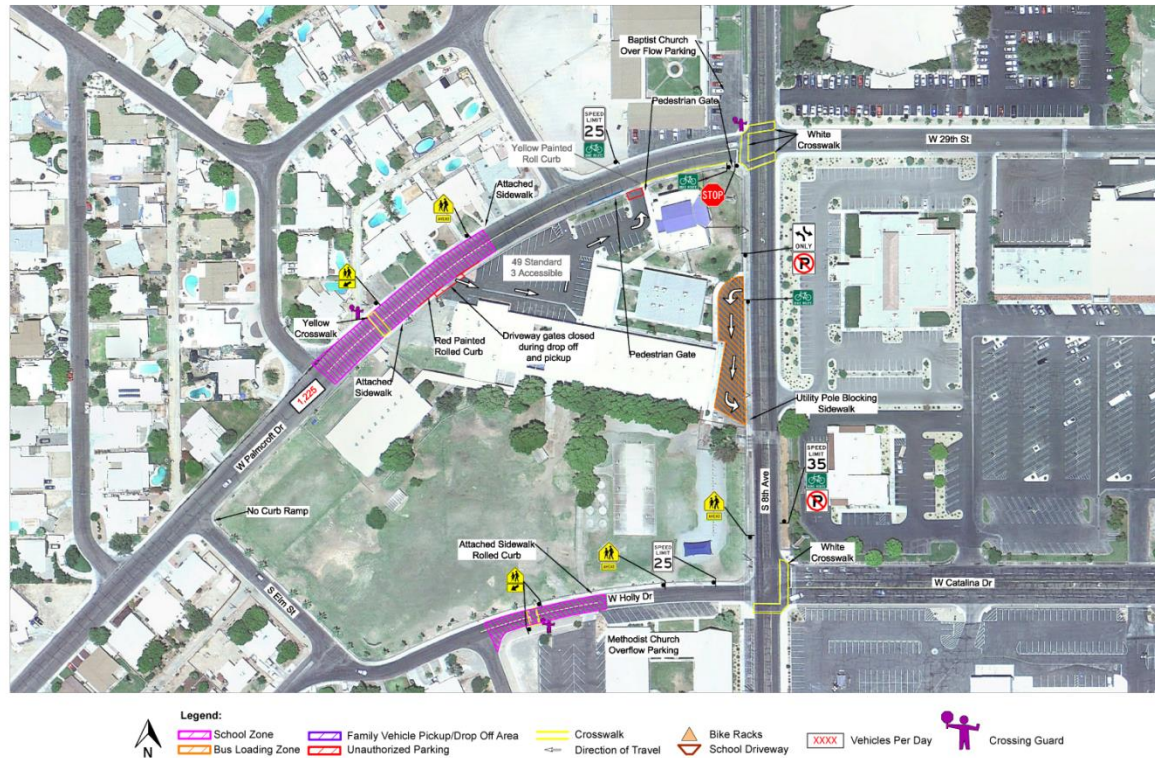


Summary of Key Audit Findings: Palmcroft Elementary School



Palmcroft Elementary School - Crash Data Map

Summary of Key Audit Findings: Palmcroft Elementary School



Palmcroft Elementary School – School & Neighborhood Audit Findings



School and Neighborhood Audit: James B. Rolle Elementary School



District Identified Need:

James B. Rolle Elementary School

“Parent lane can’t accommodate all parents, so parents park across Palo Verde Street causing children to cross the street to reach their parents which will become more of a danger with the estimated increase in vehicular traffic for 2013.”



Summary of Key Audit Findings: James B. Rolle Elementary School



Summary of Key Audit Findings: James B. Rolle Elementary School



Summary of Key Audit Findings: James B. Rolle Elementary School

Mode Split Survey



Summary of Key Audit Findings: James B. Rolle Elementary School

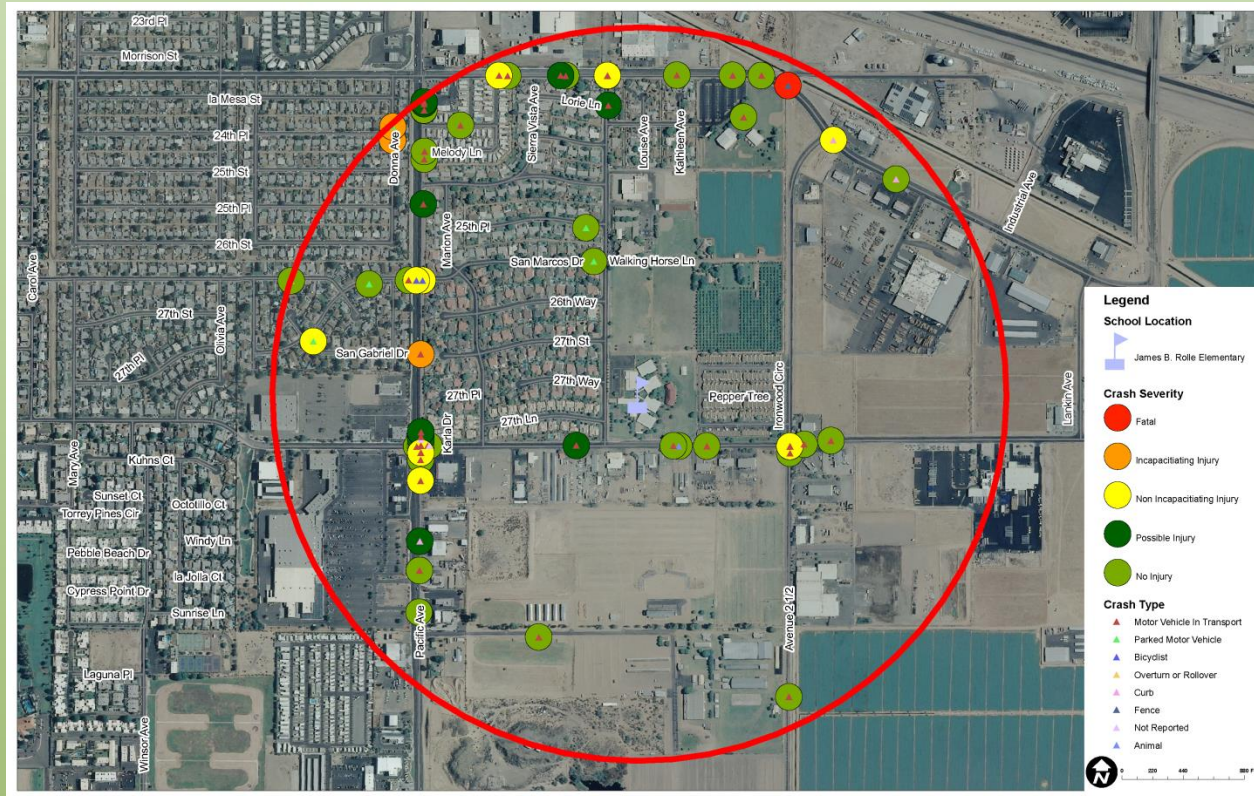


Summary of Key Audit Findings: James B. Rolle Elementary School

Injury Type	Number of Crash Incidents
No Injury	45
Possible Injury	11
Non-Incapacitating Injury	12
Incapacitating Injury	1
Fatality	1



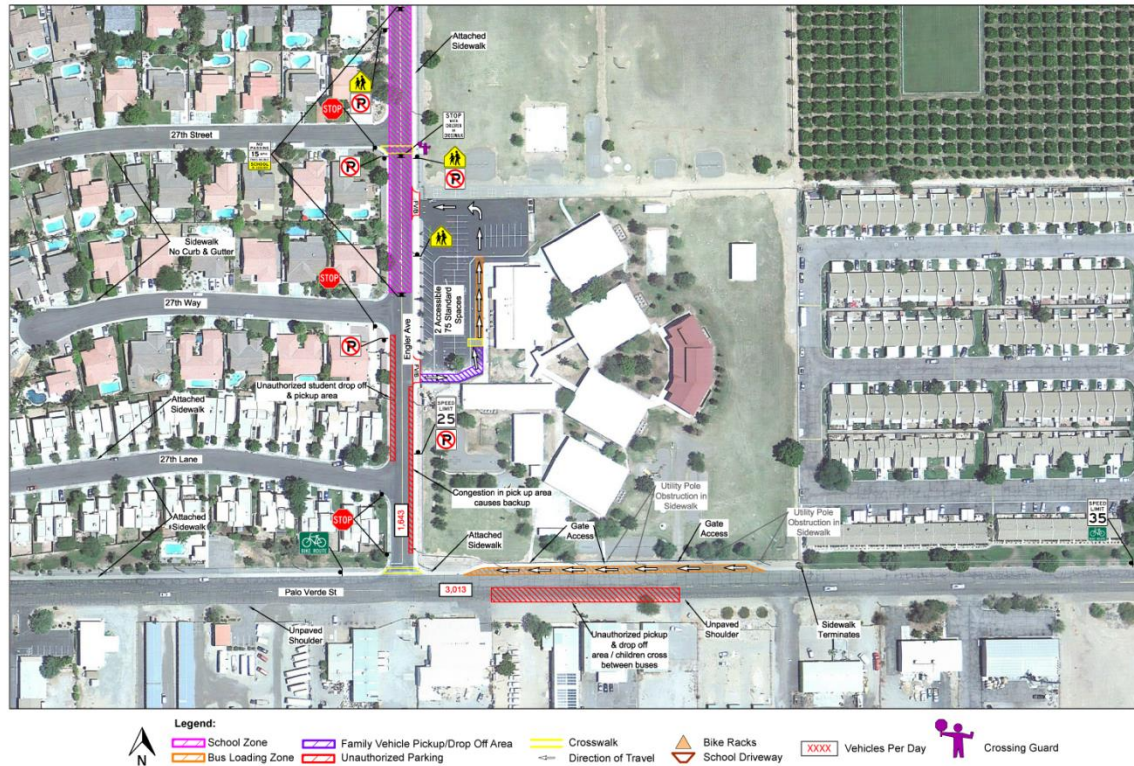
Summary of Key Audit Findings: James B. Rolle Elementary School



James B. Rolle Elementary School - Crash Data Map



Summary of Key Audit Findings: James B. Rolle Elementary School



James B. Rolle Elementary School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Pecan Grove Elementary School



District Identified Need: Pecan Grove Elementary School

“Drivers speed through the school crosswalk located on 8th St. causing an unsafe environment for students, this issue needs to reviewed and addressed.”



Summary of Key Audit Findings: Pecan Grove Elementary School



Summary of Key Audit Findings: Pecan Grove Elementary School



Summary of Key Audit Findings: Pecan Grove Elementary School

Mode Split Survey



Summary of Key Audit Findings: Pecan Grove Elementary School

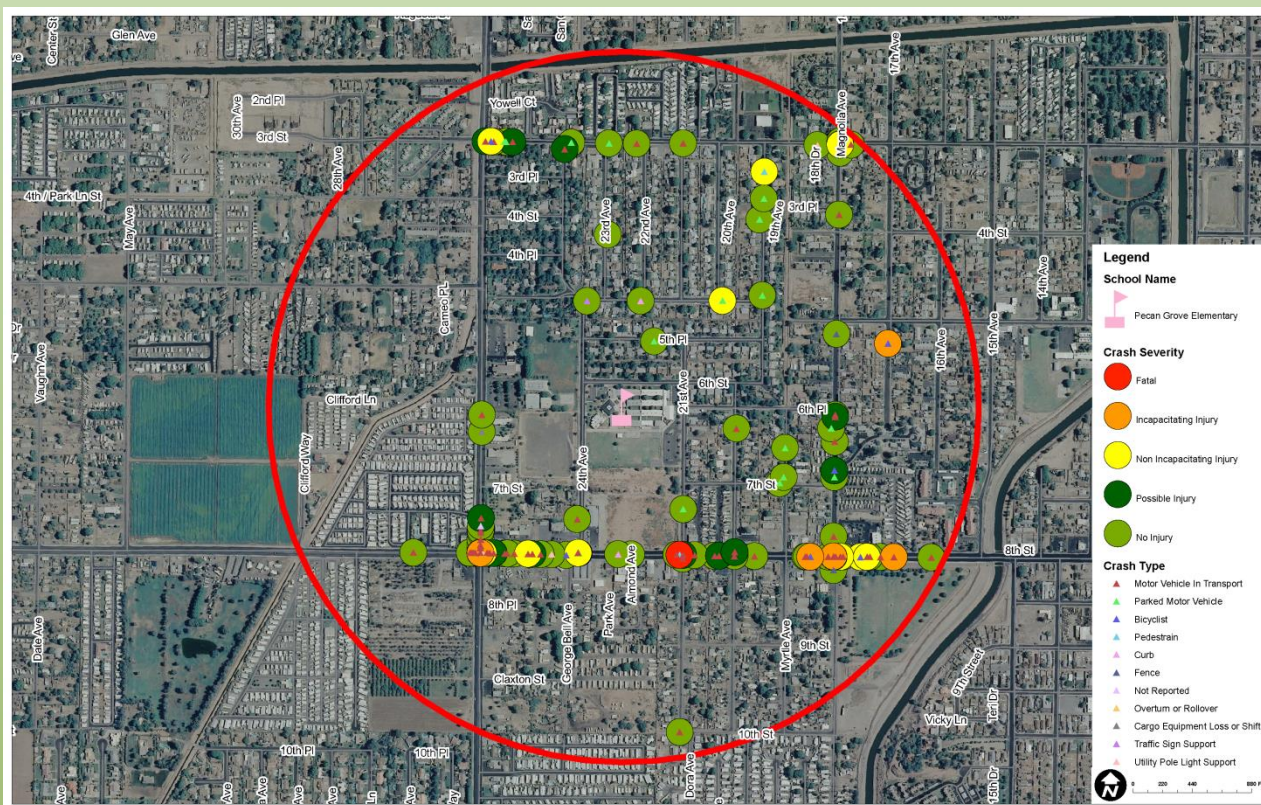


Summary of Key Audit Findings: Pecan Grove Elementary School

Injury Type	Number of Crash Incidents
No Injury	94
Possible Injury	21
Non-Incapacitating Injury	14
Incapacitating Injury	5
Fatality	1



Summary of Key Audit Findings: Pecan Grove Elementary School



Pecan Grove Elementary School - Crash Data Map



School and Neighborhood Audit: G.W. Carver Elementary School



District Identified Need:

G.W. Carver Elementary School

“Sidewalks around school are inadequate, uneven, cracked and have vegetation grown in them creating situations that could cause a perilous fall. The reduction of crosswalks on 5th St. has created an unsafe crossing for students and parents who need to dart through traffic. The canal has created a barrier for many of the south neighborhood students who need to walk around the canal to reach the school.”



Summary of Key Audit Findings: G.W. Carver Elementary School



Summary of Key Audit Findings: G.W. Carver Elementary School



Summary of Key Audit Findings: G.W. Carver Elementary School

Mode Split Survey



Summary of Key Audit Findings: G.W. Carver Elementary School

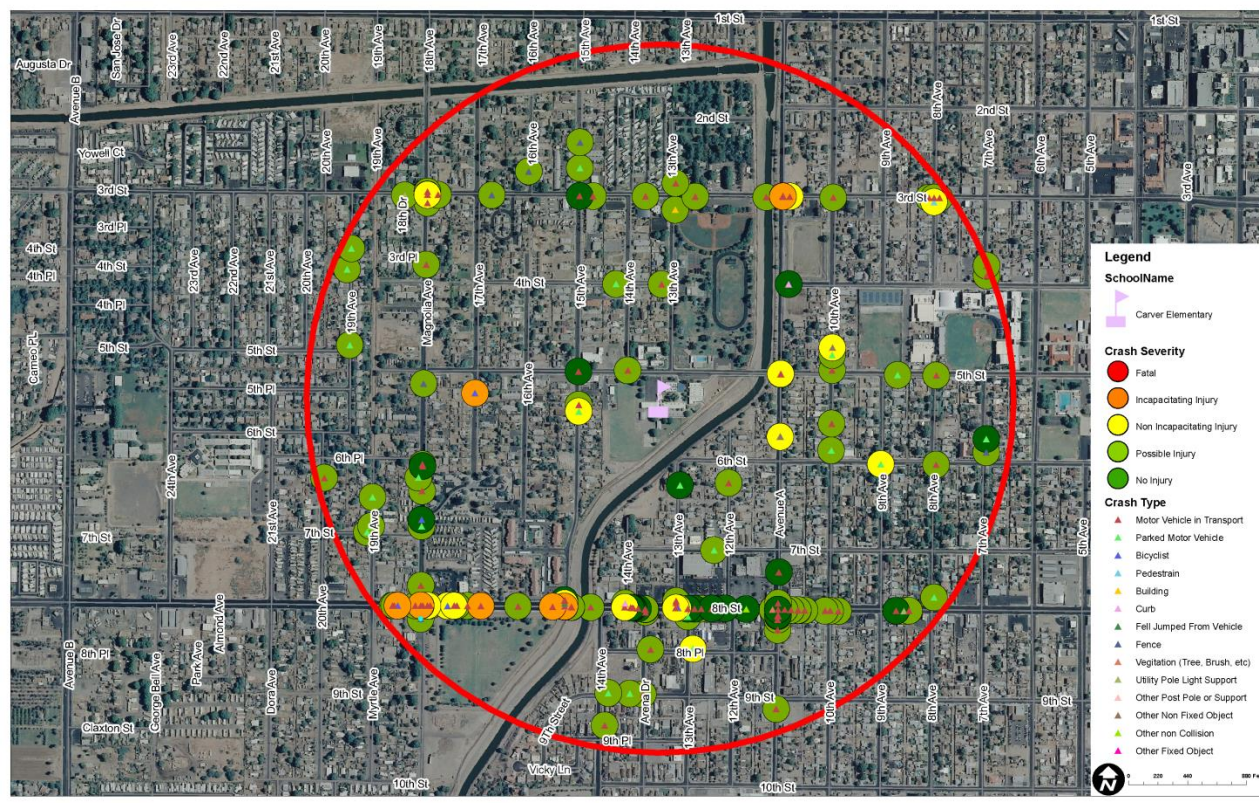


Summary of Key Audit Findings: G.W. Carver Elementary School

Injury Type	Number of Crash Incidents
No Injury	126
Possible Injury	26
Non-Incapacitating Injury	20
Incapacitating Injury	7
Fatality	0



Summary of Key Audit Findings: G.W. Carver Elementary School



G.W. Carver Elementary School - Crash Data Map

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G.W. Carver Elementary School – School & Neighborhood Audit Findings



School and Neighborhood Audit: Mary A. Otondo Elementary School & Castle Dome Middle School



District Identified Need: Otondo Elementary & Castle Dome Middle School

Castle Dome Middle School

“Vehicles congest the parking lot looking and waiting for students, which makes it impossible for others to exit the parking lot. Early Action project: The school district just completed a parking lot reconfiguration project to increase the drop-off/pick up zone which should alleviate some of the issue.”

Mary A. Otondo Middle School

“There is heavy traffic at dismissal and morning drop off.”



Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School



Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School



Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School

Mode Split Survey



Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School



Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School

Injury Type	Number of Crash Incidents
No Injury	6
Possible Injury	1
Non-Incapacitating Injury	2
Incapacitating Injury	0
Fatality	0



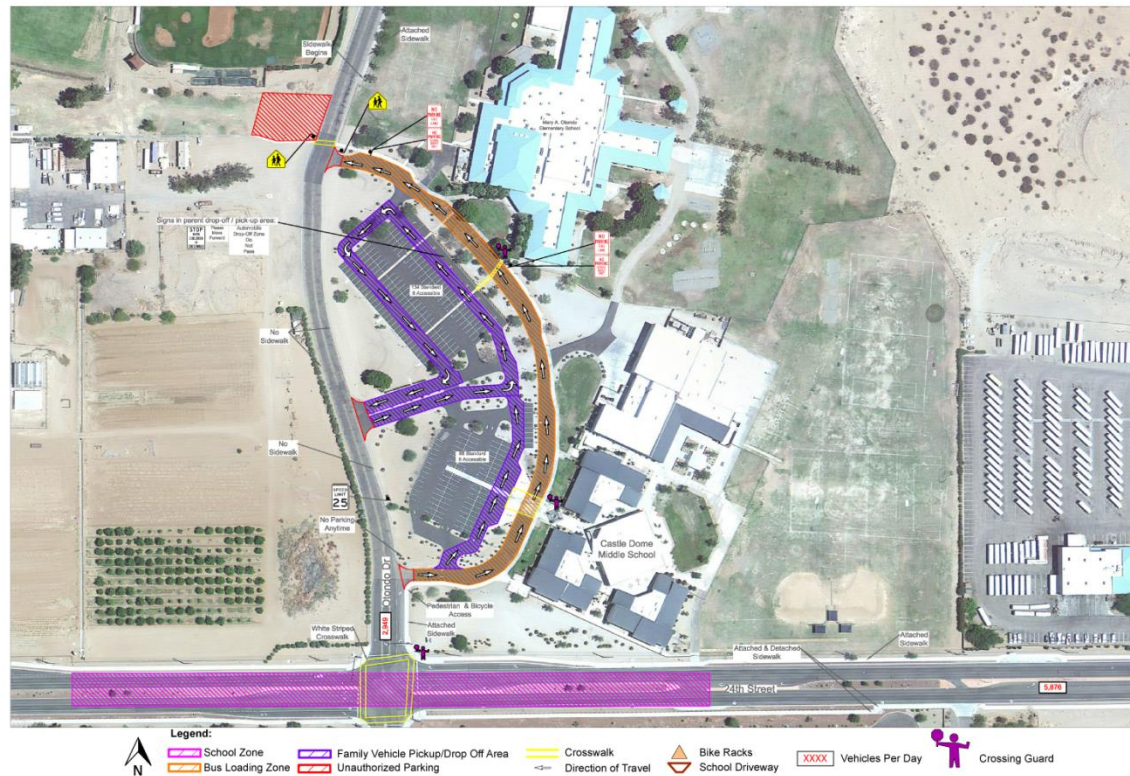
Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School



Otondo Elementary & Castle Dome Middle School - Crash Data Map



Summary of Key Audit Findings: Otondo Elementary & Castle Dome Middle School



Otondo Elementary & Castle Dome Middle School – School & Neighborhood Audit Findings



Next Steps

- Refine Work Plan based on TAC's input
- Please provide comments on the Work Plan to Justin by October 28th
- Proceed with Data Collection process
 - ❖ Bus Route Plans
 - ❖ Parent pick-up/drop-off plans
 - ❖ Mode Split Survey
 - ❖ Parent Survey
 - ❖ Education & Encouragement Programs
 - ❖ Field Review